Paper Talk

JUNE, 1951

Children watching Punch and Judy perform at the Botany Mill Picnic.

UNITED STATES CONSUL'S VISIT TO BOTANY MILL ★

Mr. A. S. Brown (N.S.W. Manager) right, shows a sample of paper to Mr. H. R. Hungerford, American Consul in Sydney, during his visit to Botany Mill.

★

PAPER TALK

Vol. 10 No. 3 **May - June, 1951**

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Dr. A. Meller (Senior Cellulose Research Chemist).

— Scientists to Visit America —

Two members of the Research Division, Mr. J. Wertheim, the Deputy Research Manager and Superintendent of Applications Research, and Dr. A. Meller, Senior Cellulose Research Chemist, are to visit the U.S.A. this year for a series of important Chemical Conventions to be held in September. These are:—

The Annual General Meeting of the American Chemical Society.

The International Science Congress being held in conjunction with the above meeting.

A series of meetings is also being arranged by the Technical Association of the Pulp and Paper Industry concurrently with the above programme.

In addition a meeting of the Wood Chemistry Section of the Food and Agricultural Organization of the United Nations is being held at this time.

In addition, after these conferences they will visit establishments of interest to the Company in the U.S.A. and Canada, Dr. Meller in the main concentrating on technical centres and Mr. Wertheim investigating the present position and technical trends in the dissolving pulp field. It is anticipated they will be away till the end of the year.

Honour for Dr. Meller:

It is of particular interest that Dr. Meller was invited by the famous Institute of Paper Chemistry at Appleton, Wisconsin, U.S.A., to "give lectures and direct laboratory research in the field of Cellulose Chemistry" at the Institute for four months from May to August of this year. At the end of this period Dr. Meller would of course be available to join in the great "Chemical Conclave" in September.

Readers will appreciate the honour that has been paid to Dr. Meller by the Americans, when it is realized that from May to August Dr. Meller's expenses will be paid by the Institute of Paper Chemistry and that the Institute has arranged for his plane fares both to and from the United States to be provided under the provisions of the Fulbright Act.

It is a matter of some pride to the Company that Dr. Meller's world reputation in the Cellulose Chemistry field has been gained from his work at its Research Laboratory.

Dr. Meller left Australia in May and Mr. Wertheim expects to depart early in August. They will join forces in September at the series of conventions listed above.

A well developed stand of Monterey pines.

a.p.m. FORESTS PTY. LTD.

By J. D. BROOKES
General Manager, A.P.M. Forests Pty. Ltd.

DURING the last twelve months the forestry activities of Australian Paper Manufacturers have expanded considerably. In addition to the pulpwood and lumber supply for Maryvale Mill, which is the task of the Woods Department, a "forest growing" department has been formed. This department is charged with the task of planting a large area of pine trees annually in Gippsland and the acquisition and maintenance of eucalypt forests for pulpwood production.

A short time ago it was decided that both these departments would be removed from A.P.M. and a new subsidiary company would be formed. This company, A.P.M. Forests Pty. Ltd., has, in other words, taken over the forestry activities of the parent company, Australian Paper Manufacturers Ltd. Its tasks will be pulpwood supply, lumber supply and, later, sawmilling, also planting pine plantations and managing its own eucalypt forests from which will be drawn a portion of A.P.M.'s long and short fibred pulp wood requirements. These tasks are not small by any standards. At present the pulpwood production is about 50,000 cunits per annum. When the pulpmill extension starts up at Maryvale the production will have to be increased to about 90,000 cunits per annum.

Pulpwood procurement operations in Gippsland.

Over 2,000,000 pine seedlings will be planted this Winter by six planting machines like the one illustrated. *(Also see back cover.)*

This quantity is equal to approximately one-third of the entire sawn timber output from the State of Victoria. The operations are spread from Bathurst in New South Wales, through Eden and Gippsland to Mount Gambier in South Australia. The majority of the pulpwood is taken from poor quality forests which would be of little value if the pulp industry did not exist. Pulpwood operations clean up these forests, taking all usable wood and, since the method of cutting is carefully controlled, the forest seeds abundantly and dense regrowth appears. This, in time, will grow into a good quality forest of immensely greater value than the original which the pulpwood operations cleaned up.

In addition to this work, large-scale salvage operations in burnt forests have been undertaken.

The pulp industry has contributed a great deal to forestry in Victoria by carrying out silvicultural and salvage operations which otherwise would have been quite impossible.

In addition to pulpwood, large quantities of mill logs have to be harvested each year to supply building timber for houses, etc.

The other side of the picture is the future planning of both long and short fibred pulpwood requirements. Last year it was decided that large areas in Gippsland would be planted with Monterey Pine. The decision was made in April and by September 670 acres had been planted. A special mechanical planting machine was imported from America to speed up planting operations. This winter between two thousand and three thousand acres will be planted. The land has been cleared and fenced and the seedlings—over two million of them—are growing in the nursery. This time six planting machines will be in operation. Between them they are capable of planting between fifty thousand and sixty thousand seedlings per day. The first pulpwood should be produced in about 1962 in the form of thinnings. Full scale production will commence about 1966. Cut-over areas will be replanted to start the second rotation.

The eucalypt forests owned by the Company are being managed and protected from fire. Many are not adequately stocked with trees and seedlings and silvicultural treatment will be commenced soon to ensure that the full quota of trees is carried by each acre of ground. Some of these forests will be managed to produce special types of pulpwood to produce for example, Viscose pulp.

To protect these pine plantations and eucalypt forests, the Company has built up a strong fire fighting service equipped with special fire tankers, two-way radios and other equipment. This equipment has already been put to the test and proved effective.

A.P.M. Forests Pty. Ltd. is practising forestry on a sustained yield basis—planting operations go on side by side with cutting and the cutting methods used ensure that natural regrowth occurs, forming a new forest.

The continued existence of the Maryvale pulp mill depends upon good forestry and A.P.M. Forests Pty. Ltd. is out to practise good forestry so that A.P.M. will never be short of pulpwood.

THE PRODUCTION OF VISCOSE

By UDO R. SCHENCK

Research Division, A.P.M.

Dr. Schenck was formerly at the Institute of Cellulose Chemistry, Technical University of Darmstadt, Germany, working under Professor Jayme, one of the world's leaders in Cellulose Chemistry.

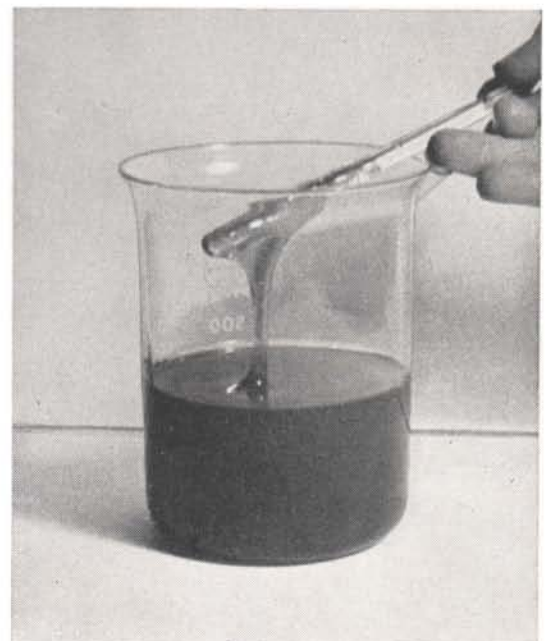
The commercial production of viscose is particularly interesting to this Company, as our Research Division has investigated the production of pulps from local eucalypt hardwoods, for use in viscose manufacture.

Viscose is the most widely used artificial fibre of cellulose basis. It is in fact the world's cheapest artificial fibre. The preparation of viscose is based on the finding of Beadle and Cross & Bevan, in England, in 1892, who discovered that alkali cellulose forms cellulose xanthate when reacted with carbon disulphide.

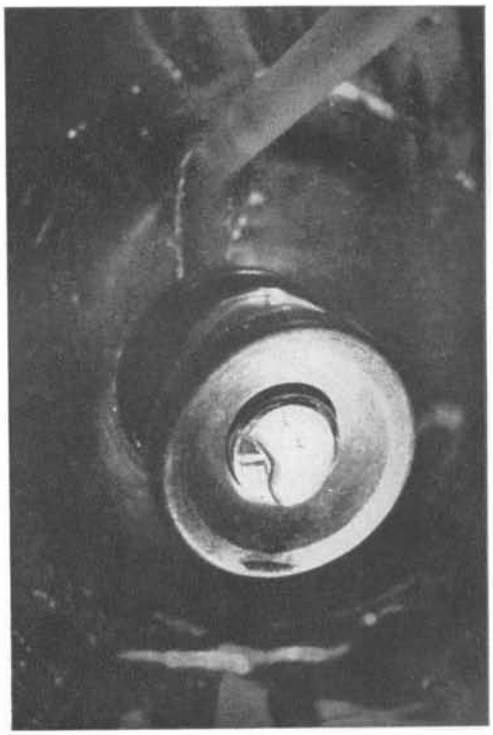
Viscose fibres are used as textile yarns for underwear, dresses, linen, hosiery, curtains, upholstery, plushes, etc., and as high tenacity yarns for tyre cord, rubber hoses, etc. Other articles produced from viscose include cellophane, bath sponges, sausage skins and many others.

Raw Material for the Production of Viscose:

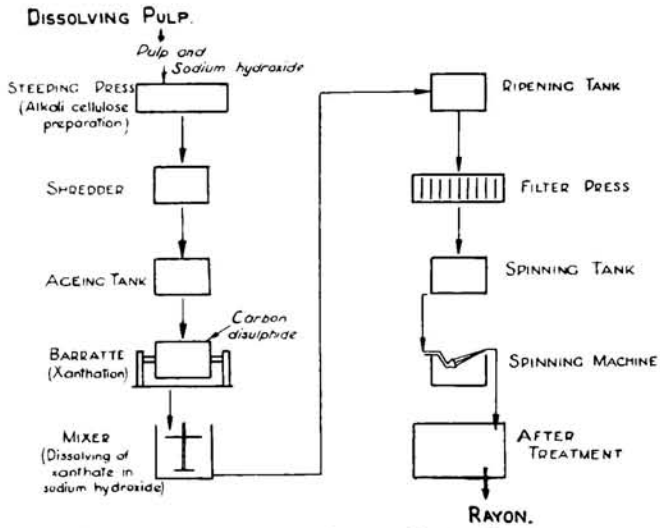
In the earlier years of viscose production, cotton and well bleached sulphite pulps from



Viscose ready for spinning, prepared at Research Laboratory, Fairfield. (It is a viscose, orange coloured solution.)



Viscose is seen issuing through a number of fine holes into the spinning bath.



Flow chart of various stages from pulp to viscose fibre.

softwoods with low ash and resin contents were used as the principal raw materials.

In later years, hardwood sulphite, and prehydrolysed sulphate pulps from hard or softwoods and also from straw have been converted to viscose. For tyre cord, viscose fibres produced from prehydrolysed sulphate pulps have been used for the last seven years.

To obtain finished viscose fibre, the cellulose has to undergo many steps. The whole viscose process is very sensitive and requires much experience and control. It is impossible to forecast the behaviour of a pulp during the viscose process from its analytical values alone. Therefore, the dissolving pulp and viscose producing mills have "pilot plants" where small batches of pulp undergo the whole viscose process in order to assess its suitability.

The Principles of the Process:

Cellulose in the form of pulp is formed into alkali-cellulose through steeping in sodium hydroxide solution. After ageing, the alkali-cellulose reacts with carbondisulphide to form sodium-cellulose-xanthate, which is dissolved in caustic soda to form viscose. After ripening it is passed through spinnerettes into an acid bath, where the sodium-cellulose-xanthate is decomposed to form cellulose filaments called viscose fibre.

The Viscose Process in Detail:

The various stages from pulp to viscose fibre are as follows:—

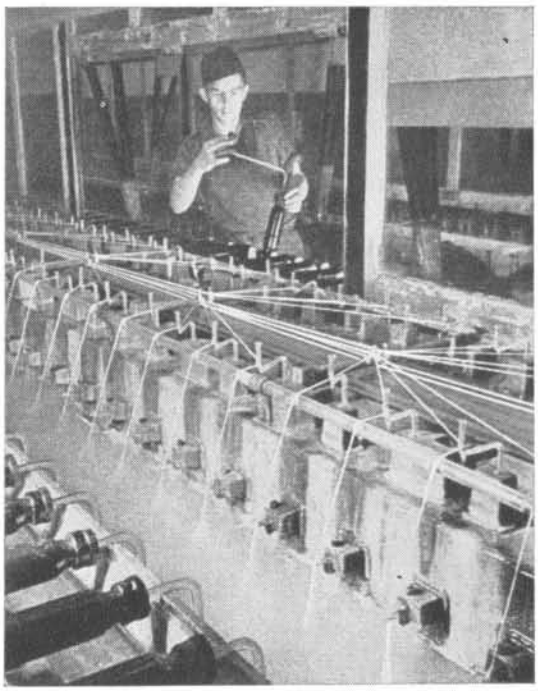
1. Alkali cellulose preparation.
2. Shredding.
3. Ageing.
4. Xanthation.
5. Dissolving.
6. Ripening.
7. Spinning.
8. After treatment.

Now Consider Each Step Briefly:

1. *Alkali Cellulose Preparation:* The pulp sheets are put in steep presses and treated with 17.5-20% sodium hydroxide for an hour or a little longer at 18-20°C. After this reaction, the steeping liquor is run off and reused for the next batch and the sheets are then liberated from excess liquor by hydraulic pressure. The alkali cellulose consists of 15-

16% NaOH and 28-32% cellulose, 0.4-0.7% sodium carbonate, the balance water. The liquor extracted by pressing is purified from hemicellulose by dialysis before reusing.

2. *Shredding of Alkali Cellulose:* The alkali cellulose is shredded into crumbs under time and temperature control. For shredding, usually "Werner Pfleiderer" shredders are used, which are equipped with two rotating (kneader) arms moving in opposite directions.



Spinning. Clearing a blocked spinnerette, in a European factory.

3. *Ageing of Alkali Cellulose:* In the ageing process, the cellulose is depolymerised to the desired polymerisation degree, through the action of atmospheric oxygen. The ageing is carried out in bins for 2-3 days at 20°C. In some factories the temperature is higher to shorten the ageing time.

4. *Xanthation:* When the ageing is finished, the alkali cellulose is transferred to barattes, which are water-cooled rotating drums, equipped through the main shafts with vacuum and carbon disulphide pipe lines. 32-35% carbon disulphide on cellulose is brought under vacuum on to this alkali-cellulose. The barattes rotate slowly for nearly an hour and a half, the temperature being in the range of 20-35°C., depending on the factory. The tendency for the temperature to rise as a result of this reaction is controlled by cooling the barattes.

During the reaction the alkali cellulose crumbs first turn yellow and then yellow-orange. After reaction, fresh air is sucked through the vacuum pipes for ten minutes to avoid escape of poisonous vapours into the room.

5. *Dissolving of Cellulose Xanthate in Sodium Hydroxide:* The cellulose xanthate is dropped into mixers, which are equipped with peddles and cooling equipment. Dilute alkali solution is added to produce a viscose containing 7-8% cellulose and 6-7% sodium hydroxide. The mixing is carried out at controlled room temperature for 4-6 hours.

6. *Ripening of Viscose:* The fresh viscose is not suitable for spinning, therefore a certain ripening time is required during which the sodium cellulose-xanthate slowly decomposes till the spinning point is reached. During the ripening, the viscosity of the cellulose remains practically constant, whilst only the viscosity of the solution changes.

The ripening is carried out in ripening tanks which are located in cellars at controlled temperatures. The required ripening time varies in different factories from 20 to over 100 hours. As the viscose contains small amounts of undissolved fibres and fibre debris which can block the spinnerettes, the viscose is filtered three times through filters in filter-presses, and once before the spinning nozzle. Also air bubbles are removed by vacuum during ripening to avoid breaking the filaments during spinning. The blocking of the filters and nozzles causes much difficulty during production, and is a cause of much trouble in viscose mills. Therefore, the mills always test a new pulp in the pilot plant before use. The endpoint by the ripening is determined titrametrically or with a maturimeter.

7. *Spinning:* From the spinning tanks, the viscose is delivered by pumps through the spinnerettes into an acid bath and the cellulose fibres are collected. The composition of the spinning bath varies in different mills, but usually contains sulphuric acid, sodium

sulphate or ammonium sulphate, magnesium or zinc sulphate with or without glucose.

A spinning bath for pot spinning for example could contain 12.5% sulphuric acid, 19-19.5% sodium sulphate, 1-1.2% zinc sulphate, 8% glucose.

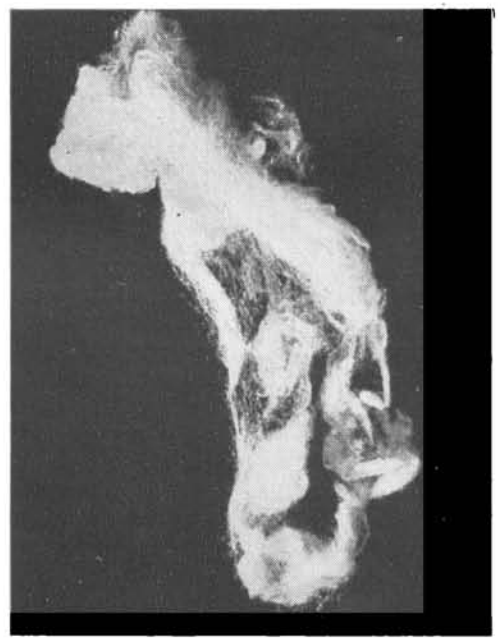
A slow coagulation by spinning is of advantage to allow a good stretching of fibres. Zinc- and magnesium sulphates are used for this purpose with great success.

Two kinds of spinning are commonly used: bobbin and potspinning.

For pot spinning, the stretched yarn is guided through a funnel into a pot which spins at from 5,000 to 6,000 r.p.m. The yarn forms a cake on the wall of the pot. In this process, the yarn is automatically twisted, whilst for bobbin spinning, a separate twisting process is necessary.

In staple fibre production, the filaments from individual spinnerettes are collected and cut. In rayon spinning, the yarns of each individual spinneret are collected separately.

Alkali cellulose preparation in a European factory. Pulp sheets are being steeped in concentrated caustic soda.



Stable fibre flock made from hardwood pulp. Spinning Nozzle.

The spinning nozzles are very expensive and are made from platinum, iridium, and sometimes from tantalum. For staple fibre production for example, the nozzles may have up to a thousand very fine holes.

8. *After Treatment:* After spinning, the fibres are washed with soft water until free from acid. Sulphur is removed with sodium sulphide solution. The fibres have a slight green colour which is removed with 0.1-0.5% hydrochloric acid. Sometimes mild bleaching is carried out.

Staple fibres are loosened up by running through an opener and are transferred to the consumer in bales. Rayon is sent away in cakes, skeins or cones.

. . .

The foregoing is a condensed version of the major processes involved in the classic production of viscose. Improvements in this basic process are of course being made continually, particularly in the direction of combining separate steps into one operation so that an almost continuous process has now been developed.

Photos.: V. Glanzstoff-Fabriken and A.P.M. Research Lab.

Once More a Familiar Sight in Melbourne Suburbs

WHY ? ?

During the past year a great change has come over the supply of raw materials used in the manufacture of paper products as many countries are stockpiling for defence needs.

Australia is dependent on overseas countries for long fibred pulp, which is obtained from softwoods not available here in large enough quantities and it is becoming increasingly difficult to obtain sufficient for the manufacture of wrapping papers and other products manufactured by A.P.M. Ltd.

The size of your daily newspaper gives some indication of the effect the shortage of newsprint is having on the newspaper industry, which means there is less salvage material available for our use. At the same time we are making more on our board machines, and this has increased our demand for waste paper. It was therefore necessary for us to reintroduce the house to house and shop collections in Melbourne, and we are pleased to announce that this is again being carried out under the auspices of the Hospitals and Charities Waste Paper Appeal. In Sydney the corresponding collection service (Combined Hospitals Waste Paper Appeal) is being increased as rapidly as possible, and country collections in both New South Wales and Victoria are also being intensified.

We can all help by telling our friends why waste paper is of such importance as a raw material, and encouraging them to save OLD NEWSPAPERS, MAGAZINES, BOOKS, CARTONS, WRAPPING PAPER, etc., for the collector.

If the collector has not called, 'phone—MELBOURNE: JA5204; SYDNEY: MX2715.

Staff Golf Day —

ABOUT fifty members of Head Office, Fairfield and Maryvale staff enjoyed a day's outing at Beaconhills Golf Club on Saturday, 5th May.

The weather was just right, except the wind, which accentuated the inevitable hooks and slices. Trophy winners were Mr. R. L. Henry who turned in a nett 79 for the "golfers" section (under 20 A.P.M. handicap) and Mr. O. L. Watt a nett 69 for the "others" section (over 20 A.P.M. handicap). Both winners will be, as usual, severely dealt with in future handicapping. The next outing will be on Saturday, 27th October, at the same course.

Mr. A. Naismith (Engineering) watches Mr. A. Gammie (Construction) driving off.

L. to R.: Messrs. O. Nadebaum, R. L. Henry and P. Bassett.

L. to R.: Messrs. A. Naismith, R. Boynton, H. Nicholson and R. Gepp.

Group including Mr. G. W. Ellis (A.M.D.), Mr. J. D. Andrews (Operations Manager) and Mr. H. Somerset (Managing Director, Associated Pulp and Paper Mills Ltd.).

Group including Messrs. G. S. Semmons, R. G. Moffat, A. C. Fisher, R. B. Boynton.

A.P.P.I.T.A. General Conference

The fifth General Conference of the Australian Pulp and Paper Industry Technical Association was held at Burnie, Tasmania, from 17th to 22nd March.

Over one hundred delegates representing all sections of the industry in Australia and New Zealand attended. A.P.M.'s staff was well represented and a number who attended were accompanied by their wives. A.P.M. staff who presented papers were Messrs. R. T. Boynton, J. J. Lanigan, jun., B. A. Boas, J. P. Powell, A. R. Tresider, D. I. Sutherland, C. C. Barton, A. C. Fisher, and J. W. T. Merewether.

The Conference programme included an afternoon party to welcome delegates, a bush trip to Guildford Junction and Waratah and inspections of Associated Pulp and Paper Mills Ltd., Burnie Mill and the hardboard plant of Paper Makers Pty. Ltd.

APPITA's Annual Dinner was held at the Club Hotel on Wednesday evening.

Mr. O. H. Gepp (General Sales Manager).

Mr. J. Merewether (left), Mr. B. Boas (left background), Mr. C. Barton (centre).

Left to right: Mr. P. Stops, Dr. H. E. Dadswell (C.S.I.O.R.), Mr. A. J. Watson (Burnie).

REPLACING a DIGESTER at MARYVALE

By A. SNADDON
Chief Engineer, Maryvale

Digester No. 6 of 1,250 cu. ft. capacity, 26 ft. 6 in. high and 9 ft. 6 in. diameter, recently reached the end of its useful life as a vessel for the cooking of wood chips. Fortunately, a stainless steel clad digester purchased from Chicago Iron & Bridge Co., America, was lying in our Stores Compound awaiting such an emergency; this digester (it is now called 6A), however, is of larger capacity, namely, 2,000 cu. ft., 36 ft. 0 in. high, 10 ft. 0 in. diameter, and approximately 22½ tons weight.

Installation of a digester in a new plant is not a very difficult job, but to remove one from an existing building, and replace it, without interfering with production, is much more difficult. That Maryvale Engineering Department did take a digester out and replace it with a new one without loss of production is a tribute to the effort of the men concerned.

When it had been decided that the new digester had to go in, the writer was asked to set a schedule for completion of the job. As all engineers know, the determination of a completion date is an extremely difficult matter. You all know the rule:—"Think of a number, double it, etc."; the difficult part is to determine the first number; well, in this particular case the answer was "three weeks." Naturally, there were many sceptics when it was learned that all the work involved in replacing a digester would take only three weeks. I must admit that the result of my deliberations did seem a trifle optimistic, but as I had followed the age-old empirical formula, I had no recourse but to stick to it. In my own defence, let me state, that I had never seen a digester changed before and therefore, by many, I was excused on account of ignorance; others, more maliciously inclined, hinted at the use of a crystal bowl, even at guessing.

The whole credit of completing a very suc-

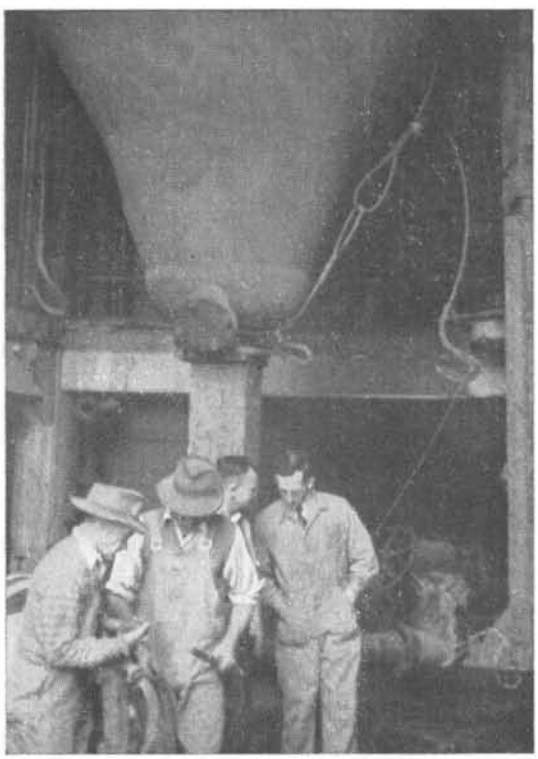
Left to right: Messrs. T. Borden, H. Young, P. LaStran, A. Snaddon, H. Brady, M. Moffitt, T. Evans, T. Wilson, B. Clarke, S. Barrett, L. Delaney, A. Benell, T. Morrati, M. O'Day, L. Hughes, V. Palmer, W. Jacobsen and C. Hanerhan.

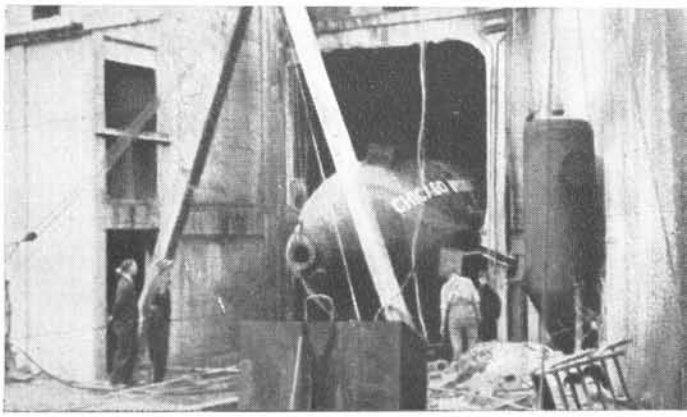
cessful job in two weeks and three days, belongs to the riggers, pipe fitters, fitters, concreters, carpenters, plumbers, electricians, etc., and the staff men, who saw that first things were done first. The writer only comes into the picture with the photograph attached to this article. Whilst on the subject of credit, we desire to thank the "cooks" and "cooks' helpers" for carrying on with their chip cooking schedule, in spite of the fact that for over two weeks we got in their hair quite considerably.

The work involved knocking down building walls to a height of 22 ft., concrete floor slabs, moving a tertiary liquor tank 20 ft. in diameter and 18 ft. high, 15 ft. to the East, altering steam, condensate and electrical cable runs to keep the remainder of the Digester House in production, sinking balance weights 6 ft. or 8 ft. in the ground to hold the winches, which performed the lowering and lifting jobs, etc., etc.

As the new digester was much larger in capacity, the supporting legs were positioned at larger centres and this meant digging down into the old concrete foundations to fix the new ones.

The Digester in position.





The new Digester enters the building.

In addition, to expedite the work, all trades had to work on the job at the same time and to the inexperienced, it looked at times as though there was no order in the work being done. However, to the men doing the job, such was far from being the case.

In the old set up, liquor heaters, pumps, etc., attached to each digester are positioned on a reinforced concrete mezzanine floor about 9 ft. 0 in. above ground floor. In order to expedite future maintenance, etc., the opportunity was taken of placing the heaters, pumps, etc., on the ground floor, thus eliminating the mezzanine floor. It is hoped that this procedure will be adopted when other digesters are replaced.

This article would not be complete, if no mention was made of the extreme weather conditions, which occurred just at the time the work commenced. As a result of abnormally heavy rain, and consequent flooding of our large boundary drains, many sections of the Mill were flooded; in particular, the Recovery Boiler House basement, was flooded to a depth of 13 ft. In spite of this additional burden, which involved considerable work in getting the Mill into production again—to say nothing of working in most uncomfortable and wet conditions—the work of replacing the digester went on to be completed in two weeks and three days. Two more days were taken up in testing the unit for leaking joints, etc. There weren't any, by the way.

When such an achievement can be turned in at a moment's notice, it augurs well for the prosperity of A.P.M.

DEVELOPMENTS at the MADDINGLEY OPEN CUT

By GORDON MOFFAT
(Consulting Engineer to Maddingley Brown Coal Pty. Ltd.)

Aerial photograph of Open Cuts and district on pages 16 and 17.

Entrance to No. 2 Open Cut.

IT is now almost five years since Maddingley Brown Coal Pty. Ltd. came into being. On two occasions since the inception of this Subsidiary Company of A.P.M., articles have been written for Paper Talk, outlining proposals for development, and it may be of interest to readers to learn something of the progress being made at Maddingley Open Cut.

In the course of the last four to five years, Maddingley's coal production has increased from some 40,000 tons of coal per year to approximately 250,000 tons per year, and the increase of approximately 50,000 tons of coal each year will probably continue for some time, and it is very satisfying to know that the coal winning activities at Bacchus Marsh, initiated by A.P.M. are playing such a big part in the fuel economy of Victoria as well as making it possible for many industries to keep going in these days of acute coal shortages.

At the present time, the Company produces approximately 1,200 tons of brown coal every day for the use of A.P.M. Mills at Melbourne, Fairfield and Broadford, as well as providing fuel for many other industries around Melbourne, Geelong and Ballarat. This means that the equivalent of four train loads of coal leave Bacchus Marsh every day.

In order to enlarge and develop the main Open Cut at Maddingley, it became obvious some years ago that arrangements would have to be made to purchase additional land where there was proved coal and also divert the Parwan Creek which runs through the Parwan Flats overlying the rich brown coal seam at Bacchus Marsh.

It was found to be possible to arrange for the purchase of additional land along the Parwan Creek which will now permit very considerable extensions to our Open Cut as well as permit the realignment of Parwan Creek for approximately 3,000 ft. This was accomplished in 1950 when we purchased the Lignite N/L Company which had been operating an Open Cut at Bacchus Marsh since 1945. We are now operating this Open Cut and it has a production of some 1,250 tons per week at the present time. With the recent purchase of the land operated by the Lignite N/L Company, Maddingley now owns several hundred acres of land which will ensure coal reserves for the next fifty years.

Naturally such large quantities of coal as we are moving at the present time calls for first-class equipment for overburden removal, coal winning operations, transport, and finally crushing and loading coal into rail or road transport.

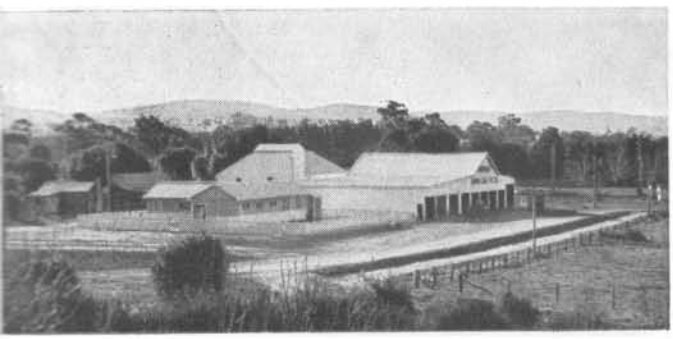
Now our Open Cut has assumed large dimensions, it is becoming no longer economical to continue to remove overburden using the large tractors and scoops originally purchased and used in the initial stages of our development. The reason for this is that tractors and scoops are slow moving units and once they have to be used to haul distances of over 500-ft., it tends to become more economical to use other methods, such as the use of large excavators and tip trucks.

The changing of overburden removal ope-

rations from the tractor and scoop method to shovel and tip trucks is now under way, and in another twelve months' time it is anticipated that shovel and tip trucks will be entirely used for this work. Their necessity can be gauged from the fact that the Open Cut at Maddingley now being developed, will soon be some 1,200 ft. square. When this size is reached the Open Cut will generally move forward retaining its main shape, and overburden from over the coal in the direction of movement of the Cut, will be hauled around to the rear portion of the Open Cut where the coal is worked out, and backfilled. It will be seen that a hauling distance of some 2,400 ft. at least is involved in handling overburden from a point just ahead of the Cut to a point just behind the Cut for backfilling after the coal is removed.

Regarding coal winnning operations, the tendency here is to go in for larger and more robust excavators, now the output is sufficiently high to warrant their use, and there are three $1\frac{3}{4}$ cubic yard excavators arriving during 1951 to meet this requirement. These large machines will gradually replace the small $\frac{3}{4}$ cubic yard excavators which have been in use for the past four years. The first of these new machines arrived at Maddingley last month and is capable of digging approximately 800 tons of coal each day on one shift or a little better than 100 tons per hour.

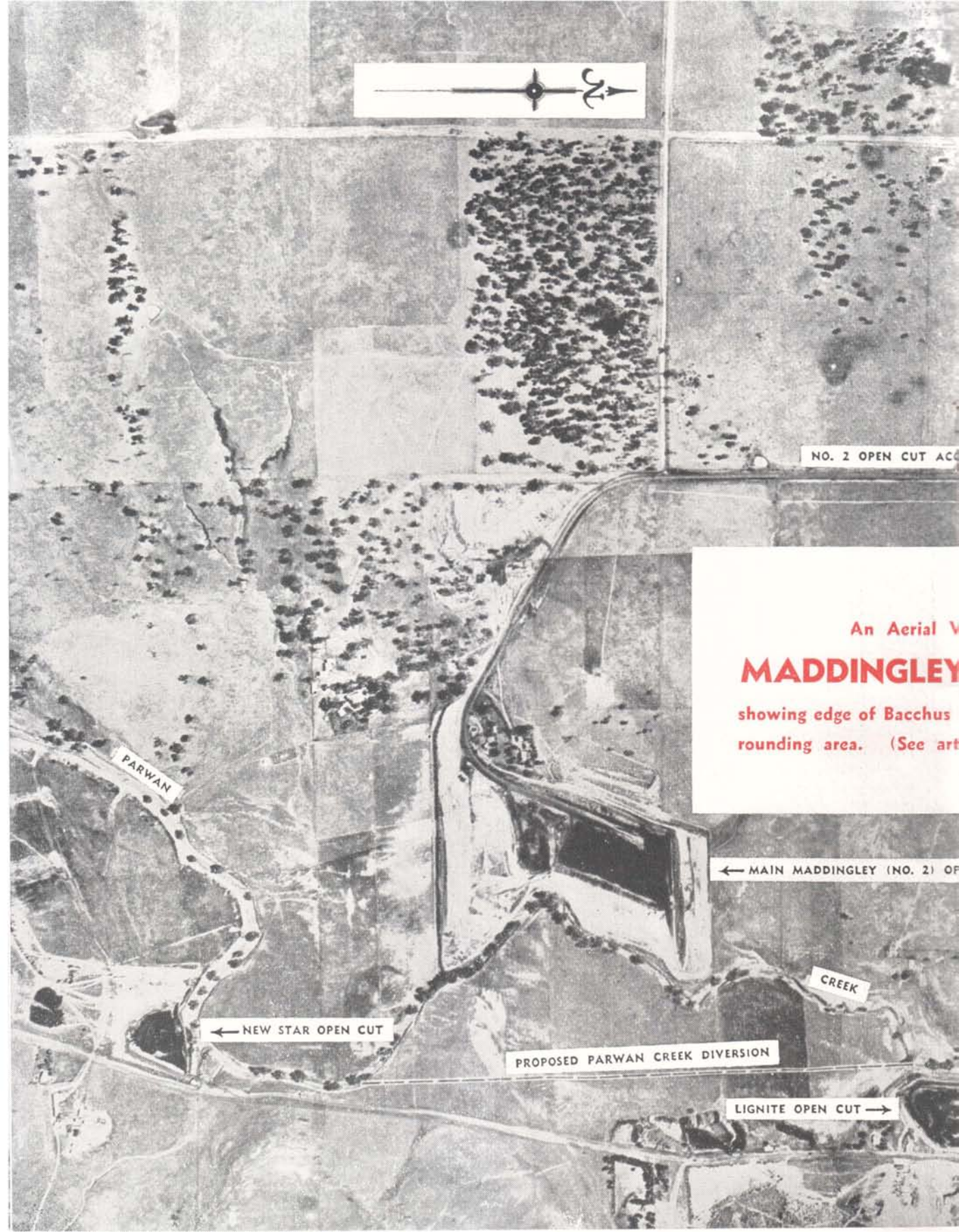
After the coal is dug from the coal face by the excavators, it is loaded into the 10-ton motor trucks and is hauled out of the Cut, which is about 115 ft. below normal ground level at the present time. It is then transported approximately $1\frac{1}{2}$ miles to the crushing installation where it is loaded either on to rail or road trucks. There is a new crushing plant in the course of construction which will be completed towards the end of 1951, and this will greatly assist loading operations and will enable two grades of coal to be sold. The grades will be for boilers equipped with spreader stokers, comprising coal approximately 2 in. down to dust, and the other grade which is suitable for boilers equipped with chain grates, will comprise coal of 2 in. up to 4 in. or 5 in.



New offices and garage at No. 1 Open Cut.

The new coal handling plant now in course of construction, which is estimated to cost approximately £70,000, will be one of the most up-to-date in Australia, and will handle 8,000 tons of coal each week on one shift without difficulty. The existing plant, which is capable of some 4,000 tons of coal in normal working hours on a one shift week, will be retained for standby purposes and can be used if required, to augment the output of coal from Maddingley. The great advantage of the new coal handling plant will be that it will make it possible to load six motor trucks from each of the six bins at the one time, as well as continue to load railway trucks, and thus avoid constant delays which occur with the present plant. The advantage of having a very large storage at this point is obvious and in the new installation, six 50-ton capacity coal bins are provided and if necessary, the number of bins can be increased without difficulty.

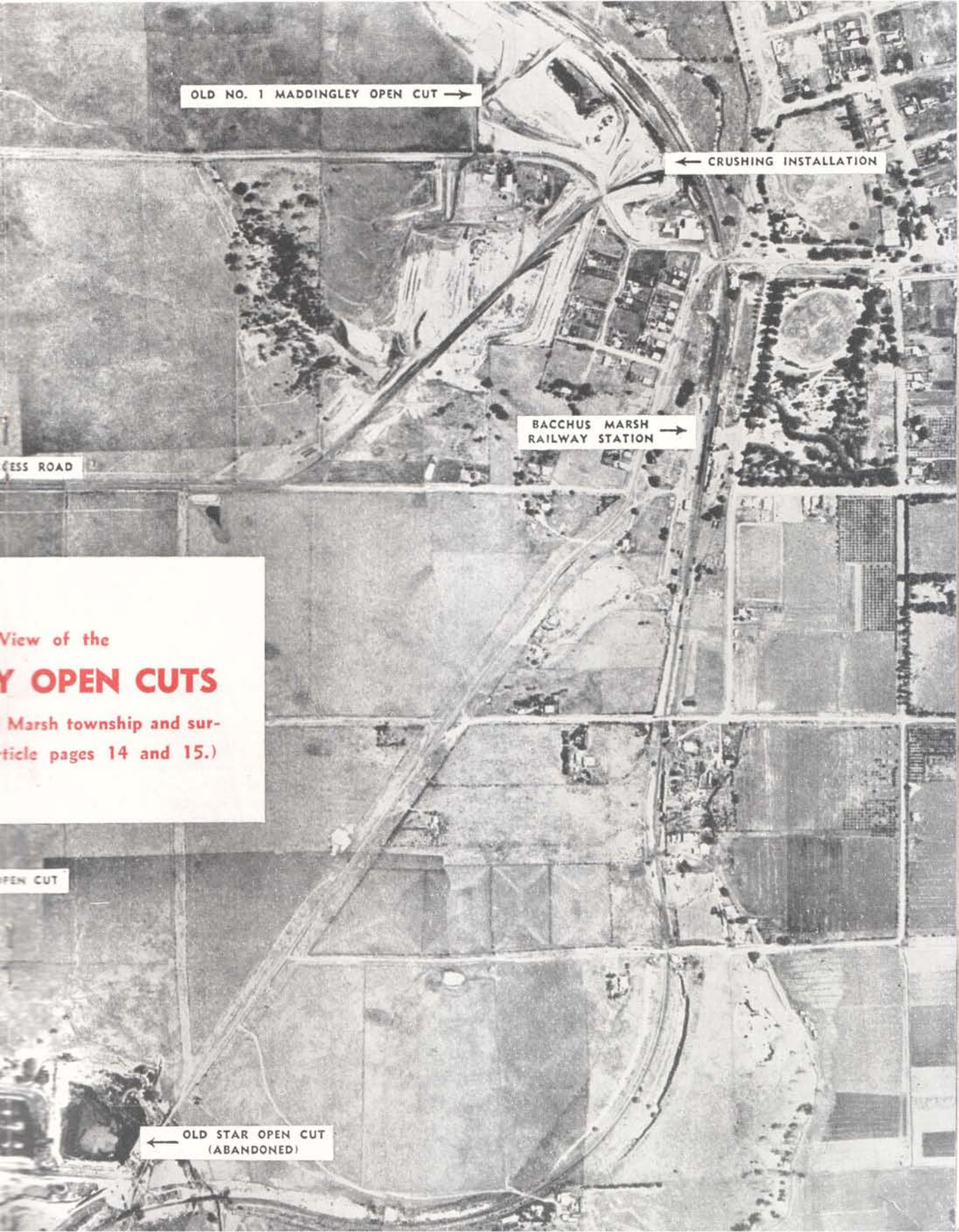
The diversion of Parwan Creek mentioned in the foregoing is an interesting job involving the movement of approximately 100,000 cubic yards of overburden. The overburden removed from the new course for the creek will be spread in layers to form a retaining wall or levee bank along the east boundary of the present Open Cut. The Parwan Creek, which has a catchment area of some 65 square miles can become a raging torrent assuming dangerous proportions. The reason for this is that the catchment area is extremely steep with very little grass or other growth to hold water falling on it. The aerial photograph will show why it is necessary to divert the Parwan Creek as it not only will permit the development of Maddingley along the lines required, but also make much more safe from possible flood damage, the operations carried out in our Open Cut.



An Aerial V

MADDINGLEY

showing edge of Bacchus
rounding area. (See art



View of the

Y OPEN CUTS

Marsh township and sur-

ticle pages 14 and 15.)

PEN CUT

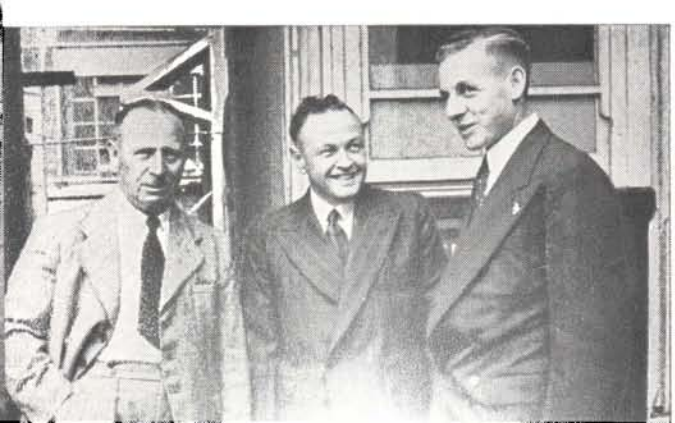
A.P.M HEAD OFFICE Notes

Mr. A. P. McLean's Farewell

On Thursday, 26th April, some 120 of the Company's staff assembled at the Hotel London for a farewell luncheon to Mr. A. P. McLean, who was resigning from the position of Operations Manager. The gathering was a representative one including staff from Head Office and Mills.

The toast to Mr. McLean was proposed by Mr. Ellis and supported by Mr. Purdie, and a presentation was made to Mr. McLean by the Managing Director, Mr. C. S. Booth, on behalf of those present. In reply, Mr. McLean said it was a big step he was taking in leaving the Company after more than 24 years' service with it, but he looked forward to seeing many of A.P.M.'s staff frequently.

Apart from the assistance which he hoped he would be able to give to A.P.M. in connection with his work as a manufacturer's agent, he hoped that anyone who thought that assistance could be obtained from him, as a result of his long experience in the industry, would not hesitate to call on him.



L. to R.: Messrs. L. Barnett, N. Leech, K. Wraith.

Mr. McLean before his appointment as Operations Manager in 1948 was Resident District Manager at Maryvale Mill from 1942 to 1944. He also visited England and Europe on behalf of the Company during 1950.

We wish Mr. McLean every success in his new post.

Personal

Congratulations to Mr. and Mrs. Len. Maddocks on the birth of a son. (Mrs. Maddocks prior to her marriage was Miss Heather Smith of Share Dept.).

Congratulations also to Mr. and Mrs. V. McInnes on the birth of their son and to Mr. and Mrs. Kemp who have a daughter. (Mrs. Kemp was better known as Miss Walton, of Accounts Dept.).

Miss Joan Crosswell, who recently resigned from Research Division because of her approaching marriage, became Mrs. John Nathan on the 19th April.

Before leaving the Company Miss Crosswell was presented with a set of carvers on behalf of her friends in Research Division.

Glad to see Mrs. Kirby (formerly Miss Irene Birch) back on the job in Woods Department.

Congratulations to Miss Judith Wills and Miss Shirley Morris (both of Supply) upon attaining their majority. Many visitors to Supply paused on the stairs to admire the artistic floral greetings (the work of Mrs. Delaney) on this important occasion.

Miss Wills is to be congratulated upon another count. A painting of hers exhibited at the Victorian Artists' Exhibition called forth very favourable press comment and attracted the eyes of a number of folk, one of whom purchased the painting.

Miss Farrell of Shares Dept. left on the "Largs Bay" for England. It is her intention to spend about six months in England and a further few months on the Continent.

Mr. S. Turner (Supply) has been transferred to Maryvale. We wish him success in his new position.

Drawing Office staff welcomed the return of Nancy Scott after a minor operation on her vocal chords.

Congratulations to Mr. Murray Potts on the birth of their daughter.

RETIREMENT—MR. A. H. SYMONS.

Mr. A. H. Symons, of the Head Office Sales Department, who was 81 years of age last December, is retiring from the service of the Company at the end of June. Mr. Symons has had 25 years' service all of which has been in the Sales Department. It is Mr. Symons' proud boast that he has had over 60 years' experience "in the trade." He has recently not been in the best of health, but we are now pleased to report that he has almost completely recovered. All the staff at Head Office who have known Mr. Symons join in wishing him a long and happy retirement.

Mr. Dick Rolland, a popular member of Power Plant Design, recently left to take up duties at Petrie. His friends in Melbourne wished him every success.

We were all sorry to hear of Mr. Stan Johnson's illness in Germany but are glad to report that he has now recovered.

We welcome back to the office Miss Joan Yann who has just undergone a tonsil operation.

Miss Jane Titchmarsh has left to take up duties in the ranks of the air hostesses. Miss Diane Lohrere has come from Central Records to take her place.

Those recently married include—Keith Dobbin, Jack Dugan, Chas. Smith (stricken with appendicitis on his honeymoon) and Roy Hicks. We wish them all the very best of luck.

APPRENTICESHIP

Considerable interest has been aroused by the awards recently made by the Apprenticeship Commission of Victoria to the best Apprentices in the various trades for 1950, these are the first awards of this kind to be made in Victoria.

Staff and employees of A.P.M. were particularly glad to hear of the success of Mr. Jim Guthrie, Maryvale Fitting and Turning Apprentice, who was declared by the Commission to be the best Apprentice in the Fitting and Turning trade for 1950. (See p. 21.)

Readers may be interested to know more regarding the employment of Apprentices in the paper industry. This Company employs 63 Apprentices in the four Victoria mills. These boys are divided up between the different trades in the following way:—

	Fitting and Turning	Electrical Mechanic	Carpentry	Motor Mechanic	Boilermaker Welder
Melbourne	1	2	2	—	
Maryvale	13	12	3	—	1
Fairfield	6	8	3	2	
Broadford	4	3	3	—	
	24	25	11	2	1

The proportion of Apprentices to Tradesmen varies according to the trade, but is usually one Apprentice to three Tradesmen or one Apprentice to two Tradesmen. The control of Apprentices generally is vested in the Apprenticeship Commission of Victoria.

Apprentices before being employed as such must receive a certificate of qualification from the Commission, and the standard of education required is usually Junior Technical Certificate or its equivalent.

In most cases, the Apprenticeship period is five years, commencing close to the 16th birthday. Indentures are signed and are the legal agreement between the Apprentice and his employer.

A.P.M. has always given priority to sons of employees when new Apprentices are required. Day schooling is carried out in the employer's time and Technical School fees are refunded by the Company to those Apprentices who attend 80% or more of their classes.

The Company provides essential tools for Apprentices and also makes a free issue of overalls and boots.

A.P.M Maryvale .. Notes

Paper Mill Superintendent.
After 22 years' service Mr. T. McFarlane has been appointed Paper Mill Superintendent. Tom has had operating experience as a beaterman and machineman, gaining foreman status in each of these sections. He was appointed Assistant Pulp Mill Superintendent in 1949, and when Mr. A. C. Fisher returned from overseas, was appointed to the position of Mill Shift Superintendent in which capacity he served until his appointment of Paper Mill Superintendent.

Mr. Doug Bates, truck driver; and Mr. Ivan O'Sullivan, labourer.

MARYVALE CRICKET CLUB

Since our last issue the cricket season has finished and cricket togs have now been packed away in moth balls.

The final of the Traralgon Association, in which Maryvale and Glengarry were fighting out the finish, turned out to be a long drawn-out affair with Glengarry the ultimate winners by 40 runs, Maryvale collapsing badly in their second innings.

However, we sincerely congratulate Glengarry on their win as this is their first premiership in thirty years, we are quite sure though that we will bring home the pennant next season.

Sincere thanks are extended to the Company for their very good assistance throughout the season and to the transport section for their capable and willing handling of our transport for the season.

Mr. W. Hobbs, Fire Officer.

Bill has had over 10 years' service with the Company and in addition to his normal duties of fire prevention throughout the Mill area, he is at present giving special training to all members of Maryvale's supervisory staff.

Mr. T. Garrett and Mr. J. Bull, both with over 10 years' service. Tom served his apprenticeship at Maryvale and is now a Draughtsman. John is the man that makes the water run the correct way. He is the Mill Surveyor.

Presentation

On Wednesday, 18th April, Mr. B. Scott presented Miss K. Stringer with a suitcase as a token of esteem in which she was held by all at Maryvale. Kath leaves for England shortly and her many friends at Maryvale wish her all the best in the future. Our new Librarian, Mr. Pettit, will take up his duties early in June.

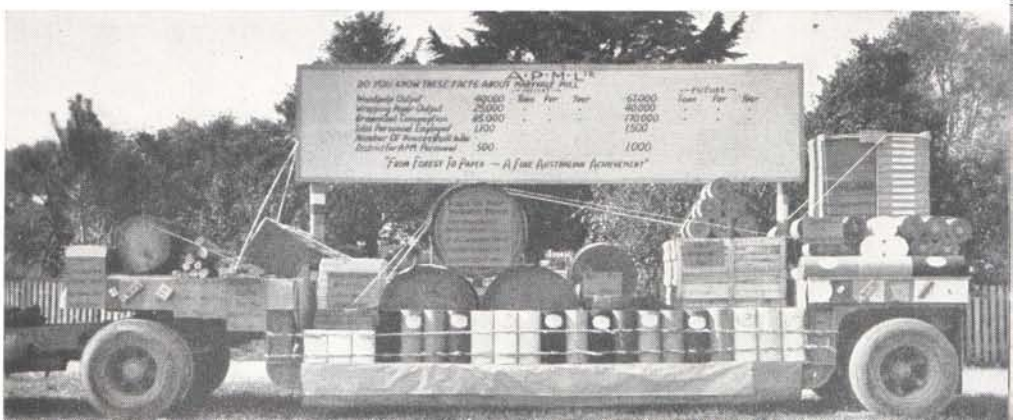
Mr. Albert Karoly, Mill Statistician, who left on 10th May for Europe.
—C. Tullock, photograph.

MARYVALE APPRENTICE GAINS STATE AWARD

The Apprenticeship Commission of Victoria has decided that Annual Awards will be made to Apprentices, in each trade, for outstanding craftsmanship. We, at Maryvale, are pleased to announce that one of our Apprentices, Jim Guthrie, was selected to receive the award, in Turning and Fitting, for 1950. He has also been presented with a gold watch by the Company.

Jim, who has been an outstanding apprentice at the Yallourn Technical School, is the son of Mr. D. Guthrie, a member of Maryvale Supply Department, with 25 years' service with the Company.

Jim's success is the reward of steady work on his part, and also reflects very favourably on the personnel of the Engineering Department who have been responsible for his development as a tradesman. We congratulate Jim on his achievement.



Traralgon Jubilee Day Procession.

The float which appeared in the Traralgon Jubilee Day Procession on May 9.

Botany News

PICNIC DAY AT BOTANY MILL

On 16th April, the day dawned with promise of sunshine for the annual picnic.

Held at Bronte Park, where the setting provided opportunity for fun and frivolity, the picnic was soon in full swing, and at the end of the day, the participants wended homeward footsore and tired after the strenuous programme of racing and novelty events arranged by the committee.

The thanks of the employees go to those indefatigable souls who gave up a goodly portion of their pleasure to render assistance in the running of the show.

To these people, both on and off the committee, whose identity is well known to everybody—a hearty thank you.

Housing Co-operative Society

A lively and spirited audience attended the inaugural meeting of this Society on 22nd May in the Canteen. Election results are:—Chairman and Chairman of the Board of Directors: Mr. H. Rogers. Secretary: Mr. A. Scott. Directors: Mr. A. S. Brown (Company Representative), Mr. E. Kesting, Mr. Max Powell, Mr. Harry Powell, Mr. Jack Hyland.

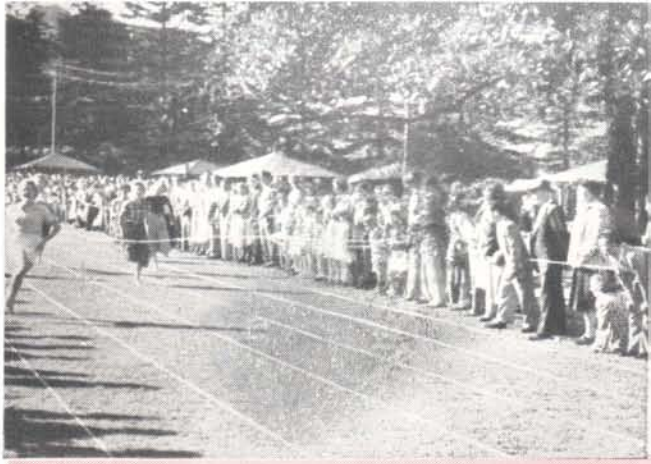
Arthur Hits the Jackpot

Mr. Arthur Speechley, Power House, was fortunate enough to win 1st Prize of £12,000 in No. 68 Special Lottery.

Arthur says his good luck is due to the injured cat which he picked up near No. 5 Boiler and nursed back to health in his home. "Tibby" can now look forward to a life of ease.

★ Stop Press

Cats may be hired at the Power House for a very small fee. As supplies are becoming limited, clients are asked to hurry with their orders.



Miss Gloria Brown winning the Ladies' Handicap, in which Mrs. Joan Howison and Mrs. Hodder ran 2nd and 3rd respectively.

Mr. Stan Curtis, official starter, Mr. Doherty, Mr. Ferg Perry and Mr. Harry Rand watch a team of tug-of-war go into action. The winning team was from Engineering.

A group of our youthful employees and their friends relax in the sun.

First Heat of 100 yds. Male Championship won by Mr. Alan Trethewey from Mr. Ernie Neall and Mr. Bill Jones. Final of this event resulted —1st, A. Woodward; 2nd, A. Trethewey; 3rd, E. Neall.

Mr. Norm Barlow, winning the Second Heat of the Sports Committe Handicap from Mr. Len Fenton and Mr. Norm Phyllis. The Final of this race was won by Mr. Owen Davis with Mr. Ernie Campbell second.

Mr. Jack Burch and family settling down to a real picnic spread.

Heave! Heave! Mr. Harry Rand concentrating on the marker as a team of huskies compete for the Tug-o-war shield donated by the Combined Unions Committee.

Family groups enjoying picnic lunches in the shelters.

A.P.M Fairfield .. News

44 Years' Service.
Mr. George McKenna has a fine record of service. He completed 44 years with the Company in March.

FIRE BRIGADE COMPETITIONS

The Mill Fire Brigade held its competitions in the Mill grounds on Saturday afternoon, the 12th May. Fortunately the day was not wet, however the cold wind kept both the competitors and the spectators on the move.

Visitors watching the events included Mr. R. T. Gepp, Mr. E. V. Clay and Mr. Manning the Chief District Officer, M.F.B., while some members of the Chelsea Fire Brigade came along to assist and give some helpful advice.

Altogether it was an interesting afternoon and the Fire Brigade is looking forward to the inter-mill competitions to be held later in the year.

Results of the events were:—

One Man Hose Event: 1st, F. Clemens. 3-Men Hose Event: 1st, R. Stevens, H. McDonald, A. Wuttke. Stand Pipe Event: 1st, R. Paterson. 5-Men Event: 1st, C. Reeves, R. Lins, J. Simpson, F. Clemens, S. Stephens. 2-Men Marshall: 1st, S. Stevens, I. Sutherland. 1-Man Marshall: 1st, R. Paterson. 4-Men Reel: No. 2 Section, 1. Sutherland, K. Sutherland, R. Patterson, W. Hamilton. Best All-rounder: R. Paterson. Best All-rounder (shift worker): C. Reeves. Records for 1-Man Marshall and 4-Men Reel were broken.

SOCIAL CLUB PRESENTATION TO MR. and MRS. HUNTER

At the Mill Social Club Dance held in the Mill Canteen on Saturday evening, 12th May, the opportunity was taken to make a presentation to Mr. and Mrs. Hunter before their departure for Botany.

Mr. F. Clemens (President) and Miss D. Bennett expressed the sentiments of the whole gathering when in making the presentations, they thanked Mr. and Mrs. Hunter for their willing and continued support during their stay at Fairfield, and told them how this support had been appreciated by all the people connected with Social Club activities.

On behalf of the Social Club, Mr. Clemens extended them best wishes in their future home.

Personal

Miss Dawn McPherson (Despatch Office) was married to Mr. Doug Dare (Engineers) on 5th May at St. Andrew's Church, Gardiner. We extend our congratulations and best wishes to them both.

A Group from the Size Room.
Messrs. A. Thomas, C. West, E. Evans and A. Campbell.

Mr. Lou Fry hit the sporting headlines recently when he was runner-up in the Champion of Champions Bowls Tournament.

Mr. Ken. Sutherland resigned from the Company early in May to take up a position as works chemist at the Glaxo factory at Port Fairy. At a gathering prior to his departure, Ken. was presented with a travelling clock.

After 25 years with the Company, Mr. Jim Day resigned recently to devote his time to raising poultry.

BASKET BALL CLUB

After a year or two in recess, the basketball club has been re-formed and a team, representing the mill, entered in the V.H.B.A. competition.

On the form displayed at practice around the mill grounds, the team should make a good showing, and the girls are looking forward to an interesting season.

Anne Craven was elected Captain, and Shirley Mahon, Vice-Captain, at a meeting held in April.

ROD AND GUN CLUB

Regular outings to various localities keep the members of this active Club busy. In past weeks the Club has had trips to Darreweit Guim and Tylden. Both the rabbits and fish have been plentiful and have provided a number of meals for the members' families.

We believe that Dick Daws is studying the psychology of music these days, for he takes a portable wireless instead of a gun to catch the rabbits. If anyone is interested, they can learn how the new method works from Dick himself.

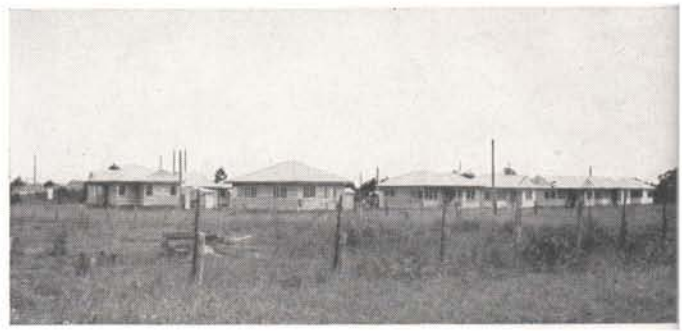
Enjoying the Sun.
Messrs. A. Prosser, W. Haysom, J. Lawson and S. Northover.

STAFF MOVEMENTS

TRANSFERS—held over from previous issue.

Drakeford, L. ... Wages Clerk, Fairfield, to Clerk, Finance, Maryvale.
Fasham, E. N. ... Construction Cost Clerk, Costing, to Share Department.
Graham, A. W. ... Technical Assistant to Production Manager to Acting Shift Foreman, Production, Maryvale.
Green, R. A. ... Senior Cost Clerk to Special Assistant to Mill Accountant, Maryvale.
Hemphill, J. G. ... Plantation and Forests Accountant, Head Office, to Accountant, Petrie.
Henderson, V. T. ... Chemist, Maryvale Technical to Research Laboratory.
Higgins, K. F. ... Cost Clerk, Botany, to Accountancy Cadet, Maryvale.
Jackson, H. A. ... Supervisor, Waste Paper, to Materials Supervisor, Raglan Street Store, Fairfield.
Jenkins, E. ... Assistant Storekeeper Brooklyn, to Stores Clerk, Building Materials, Construction, Fairfield.
Kendrick, J. E. ... Assistant Statistician, Technical to Assistant to Pulp Mill Superintendent, Production, Maryvale.
Lane, R. ... Jnr. Clerk, Southern to Northern Sales.
Leonard, P. R. ... Assistant Cashier to Cashier, Office Manager, Botany.
Lewis, A. F. ... Stores Ledger Clerk to Construction Storekeeper, Maryvale.
May, J. K. ... Draughtsman H.O. Construction to Maryvale Construction.
Moore, R. T. ... Buyer Purchasing Section. Supply to City Waste Paper Organiser, Waste Paper, Head Office.
Penny, T. F. ... Construction Storekeeper St. Peter's to Construction Storekeeper. Botany.
Preston, H. W. ... Personnel Officer, Melbourne to Housing Officer, Maryvale.
Riddell, J. S. ... Transferring back from Head Office Construction to Assistant Supply Engineer, Construction, Botany.
Scott, P. A. ... Shift Chemist to Statistical Officer, Technical, Maryvale.
Simpson, C. ... Junior Clerk, Library to Supply Section, Construction, Head Office.
Tanner, F. E. ... Cashier to Accounting Assistant, Office Manager, Botany.
Tewksbury, R. W. ... Assistant Engineer, Development to Draughtsman, Construction.
Watkins, J. W. ... Cadet Engineer, Fairfield to Melbourne.
Webb, W. R. ... Chemical Assistant, Research Laboratory Head Office, to Maryvale.
Whitfield, P. ... Board Mill Superintendent, Fairfield, to Special Assistant to Manager, Melbourne Mill.
Wilson, J. F. ... Production Manager, Melbourne to Board Mill Superintendent, Fairfield.
Wraith, K. F. ... Chief Clerk, Petrie to Acting Plantation and Forests Accountant, H.O.

Petrie News



General view of the first ten houses at Petrie, now nearing completion.

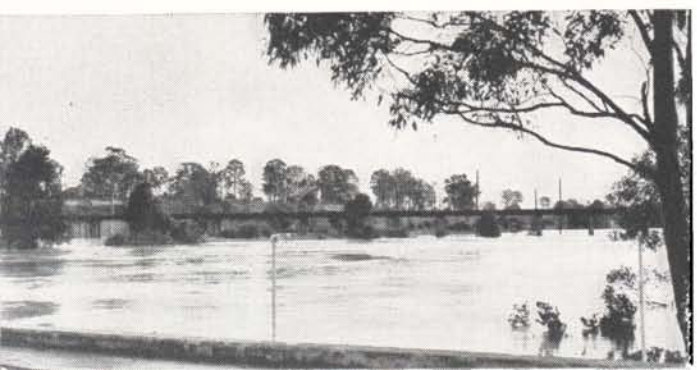
Picture on left:—

Mr. Barney Young, our Stores Ledger-keeper, attained the distinction of being the first member of the Staff at Petrie to be married in the township to Miss Doreen Warburton, of Dayboro. The marriage was performed in the Presbyterian Church. The R.S.L., formed a guard of honour and the reception was held in the local School of Arts Hall. A standard lamp was presented by the staff and employees.

Mr. and Mrs. John Hemphill's first visitor to their home at Petrie was a green climbing snake which climbed up through the window.

During a sudden storm the Company's herd of cows were marooned and strenuous efforts had to be made to rescue them through flooded waters on horseback; Messrs. Stafford and Greenhalgh had an exciting experience in making the successful rescue. The cattle swam back to safety over about 70 yards of the river without loss.

Below: Beaches at Redcliffs, near Petrie.
Bottom: Flood waters of The North Pine River.



Progress

The first main structure on the Mill site, a wastepaper store, is partly completed.

Gravel roads for the construction period are being laid.

Anzac Day

Petrie held its first Anzac parade, led by Pipers, the Boy Scouts, Junior Red Cross and ex-Servicemen with Lt.-Col. Gehrmann, they marched to Anzac Memorial Drive to observe the day. Approximately 150 people attended.

Broadford Mill Notes

Resignations

After 17 years' service with the Company, Mr. P. M. Fleming, Finishing Room Foreman, has resigned to take a position with a Melbourne firm.

To mark the occasion the staff assembled in the main office where Mr. Wiltshire, Mill Manager, presented a very nice gift.

In responding to the various speeches, Mac, as he was popularly known, thanked everyone for their kind thought and hoped that in his new position he would be as happy as he had been during his long association with the Company.

New Installations

During the long Easter shut, New Construction Branch took the opportunity of installing a new press part on the machine. By working 24 hours a day they were able to dismantle the old press section and install the new machinery in time for the start up scheduled for April 9th.

Features of the new section are the lifting devices on the baby press rolls for felt changing, suction press and main press with top granite roll. Provision has been made for the installation of a further suction press at a later date. With these additions the machine has taken on a modern appearance with the exception of course of the first 20 dryers, where one sees a maze of steam pipes due to these dryers being fed from the front side.

Interesting points on the machine are :—

1. Production increased to 45 tons per 24 hours.
2. Heaviest weight board made, 16 oz., corresponding to a basis weight of 192 lbs./1,000 sq. ft.
3. Number of dryers increased from 40 to 70.

Holidays

We are pleased to see Mr. A. Horwood back again after a three-weeks' holiday. We understand during his holidays Alec visited a Melbourne specialist for treatment. We hope you are now on the right track, Alec, and will soon have full use of your leg.

We are also pleased to hear that Mrs. A. Horwood has been discharged from hospital and is regaining her former health.

Mr. Jim Barker, Cadet Engineer, spent an enjoyable three weeks in Mildura with Jack Footes.

We understand Mr. W. Gilhome spent an enjoyable three days in Clunes. With news of gold finds in Wedderburn and Kyneton, some think that Bill thought a trip to Clunes would put him in the news as being a discoverer of some hidden reef; however, we have it from good information that Bill merely went to Clunes to look up some of his pals of former years.

Sickness

We were very pleased to see Mr. W. Mills about again. Bill suffered painful injuries to his arm and shoulder when he was involved in an accident after ceasing work at 12 midnight one dark night. We understand Bill's arm is not quite right; it should not be long before he is back with us again.

Over the past three years ill luck seems to have chased Mr. A. Brown. Recently Albert had to have a further operation, but we believe this time it was for a minor complaint. We trust you are now well again, Albert, and that the future will be bright.

Did you know Morrie McDougall is now the proud owner of a brand new Vanguard?

Tennis Courts

We are pleased to report that the two courts have been constructed and will be officially opened within the next few weeks. The courts are made to suit all weather conditions so everyone joining the club can look forward to plenty of tennis in the future.

Golf

We understand Alex. Harriden has been finally bribed into playing golf. In his first outing Alex brought in an 83 nett. What we want to know is "Did you include the miss hits and penalties incurred on the 3rd and 15th?"

Melbourne Mill News

Mr. F. Rook (Frame-maker) has retired after 39 years' service with the Company at Melbourne Mill. We wish him a long and happy retirement.

Club Activities

The Mill Social Club has been conducting regular picture nights at the State Theatre each month, and these have been well patronised. In addition two theatre nights have been held at the Tivoli Theatre—both very successful.

The Cultural and Debating Club has begun its activities for 1951. The first meeting took the form of short prepared talks by members, and at our second meeting a programme of short films on the Art of Public Speaking will be shown. A team has been entered in the C Grade competitions of the Victorian Debating Society. Last year our team did quite well, and with the additional experience they should be even more successful this season.

Messrs. A. Bennie (Engine driver), R. Thompson (Painter), and E. Thorburn (Engineer).

Obituary

The death occurred on the 9th May of Mr. E. Dunbar, who had been employed at C.B.M. for more than 12 years. Mr. Dunbar was aged 74.

Personal

Mr. J. Medley, who is a patient at Horsham Hospital following an accident while on his leave, is progressing satisfactorily. Mrs. Medley, who was also injured, has now been discharged. We apologise to Mr. and Mrs. Mutimer for the confusion of names in the last issue.

We were pleased to see Mr. Jim Euman when he called at the mill recently. Jim has been away for some months recovering from an accident, but is now feeling much better.

Mr. H. Keir (Machineman No. 1 M/C), and Mr. S. Reid (Screensman).

Research Notes . .

Congratulations to our librarian, Heather Schafer, and to Doug Murphy, who announced their engagement at the beginning of April. Our best wishes are extended to them for the future.

Lorna Larter has arrived in England, but at the time of writing we have had no definite news from her. Before she sailed on the "Mooltan" on April 4th her friends in Research Division gathered to present her with a hat box and to wish her bon voyage.

Mrs. Margaret Molloy (Campbell) resigned in April from the library staff. We were very sorry to lose her, but welcome in her place Miss Nanette Neville, whom we hope will enjoy her new work here.

Congratulations to Bill Ashby. Bill became the father of a baby daughter in April and is a very proud man.

Noel Kefford left A.P.M. on April 27th. He is the recipient of a C.S.I.R. travelling studentship and intends to leave for England very shortly.

Bill Algar left England on the "Orion" on April 26th and is expected back in Australia in June. He has been away for nearly 2½ years.

Our best wishes go to Josie Harvey, who announced her engagement to Mr. Ed. Kennewell in April.

On May 4th, Betty Sutherland left the Company after nearly seven years here. She is going to Port Fairy to live, where her husband has obtained employment. A set of saucepans was presented to her before she went. Everybody, although very sorry to say goodbye, expressed the hope that the future would be a bright and happy one for Betty and Ken.

Congratulations to Harry Rowe, who has made the grade as a League football umpire.

ABBOTSFORD SORTING PLANT

The social committee are working hard to make this year's social events a bigger success than ever and would welcome volunteers to help in the manufacture of toys for the children's Christmas tree.

The marriage was solemnized at St. Mathias Church, North Richmond, on April 14th, of Miss Ellen Becker to Mr. Keith Nolan. We wish them every happiness.

We extend our sympathies to the family of Mr. Ray Auchettl, who died in St. Vincent's Hospital after a short illness.

We also extend our sympathies to Mr. Ern McKenery, whose son was accidentally killed.

Our sympathies are expressed to Mr. W. Duncan, of Supply Department, on the loss of his father.

STAFF MOVEMENTS

(Continued from page 31)

Parker, F. E. ... Sen. Draughtsman to Asst. Engineer, Const., H.O.
Pedrick, O. ... Stores Ledger Clerk to Pay Clerk, Fairfield.
Rodd, C. J. ... Acting Asst. Pulp Mill Supt. to Assistant Pulp Mill Supt., Maryvale.
Rolland, R. W. ... Asst. Engineer, H.O. Const. to Petrie.
Shaw, J. A. ... Chemist, Mill Lab. to Board Mill Chemist, Fairfield.
Skinner, B. A. ... Chemical Assistant, Melbourne to Fairfield.
Taylor, Miss A. ... Typiste, Production to Operations, H.O.
Tinley, D. A. ... Despatch Records Clerk, A/cs. Fairfield to Accounts Clerk, Petrie.
Turner, S. J. ... Accounts Liaison Officer, Supply H.O. to Asst. to Mill Supply Officer, M'vale.
Ward, T. C. ... Foreman Fitter to Erection Engineer, Const. Maryvale.
Wilson, H. G. ... Master Electrician, M'vale to Workshop Foreman, Fairfield.
Wind, O. H. ... Sen. Mech. D'man to Asst. Supply Engineer, H.O. Const.
Winterbottom, J. ... Chief Clerk A.S.P. to Asst. to Melbourne Mill Accountant.
Wood, L. ... Stores Checker, Melbourne to District Supervisor, Charities W. Paper, A.S.P.

STAFF MOVEMENTS

For period 1st March to 30th April, 1951

HEAD OFFICE AND MELBOURNE MILL:

APPOINTMENTS

Barton, Miss P. ... ... Clerk, Accounts
Belcher, J. ... ... Asst. Civil Eng., Development
Bennett, G. R. ... ... Chemist, Central Lab.
Bennett, Mrs. N. J. ... ... Typiste, Production
Brown, Mrs. F. ... ... Typiste, Traffic
Buckley, N. G. ... ... Stores Buyer, Supply
Bunting, K. ... ... Elec. D'man, Const.
Campbell, P. D. ... ... Clerk, Supply
Corban, Miss J. ... .. Hollerith Operator, P. & S.
Fehring, Miss M. H. ... ... Typiste, A.S.P.
Fyshe, D. M. ... ... Clerk, Melbourne
Hart, R. H. ... Asst. Engineer, Development
Harvey, Miss L. J. .. Asst. Chem., Research Lab.
Hayes, J. B. ... ... Clerk, Accounts
Hepburn, Mrs. L. ... Charities Control Board Operator, A.S.P.
Hogg, N. M. ... ... Elec. D'man, Const.
Ilott, M. M. ... ... Asst. Eng. Supply, Const.
Kirkham, E. ... Purchase W. Paper Canvasser, A.S.P.
Leslie, A. J. ... ... Research Forester, Forests
Pinder, Mrs. D. ... ... Comptometer Op., Shares
Price, T. W. ... Forestry O'ser, Gippsland Area
Rayment, Miss V. ... ... Punch Op., P. & S.
Revell, Mrs. E. ... ... Hollerith Op., P. & S.
Robbins, Miss J. ... ... Librarian, Research
Robison, R. C. .. Asst. Eng., Elec. Design, Const.
Rosenfeld, J. ... ... Eng. Asst., Engineering
Smith, C. J. ... ... Power D'man, Const.
Sullivan, J. J. ... ... Chemist, Central Lab.
Switzer, Miss R. M. ... ... Typiste, Research
Tabart, K. J. ... ... Buyer's Asst., Supply
Taylor, L. R. .. .. Lab. Asst., Research Lab.
Tilley, Miss F. . ... Tracer, Const.
Tomlinson, J. C. ... Progressing Engineer, Const.
Torrens, G. W. ... ... Elec. D'man, Const.
Walker, Miss J. B. ... ... Typiste, Const.
Wotherspoon, S. ... ... Mech. D'man, Const.

RESIGNATIONS

Benns, Miss L. ... ... Typiste, Traffic
Crosswell, Miss J. ... ... Typiste, Research
Farmer, R. G. ... ... Cadet Eng., Engineering
Harrington, E. F. ... ... Clerk, Accounts
Kefford, N. P. ... Microbiologist, Research Lab.
Landon, Mrs. I. ... ... Addressograph Op., Share
Liddle, Miss J. ... ... Hollerith Op., P. & S.
McDonald, C. ... ... Jnr. Clerk, Engineering
McLean, A. P. ... ... Operations Manager
Marxsen, P. ... ... Chem. Asst., Central Lab.
Meier, W. ... ... Clerk, Accounts
Molloy, Mrs. ... Library Asst., Research Lab.
Peacock, M. ... ... Clerk, Accounts
Pritchard, W. C. ... Senior Board Salesman—Died 20/2/51
Rosenblatt, Miss E. ... ... Hollerith Op., P. & S.

FAIRFIELD MILL:

APPOINTMENTS

Alford, E. F. ... ... Stores Ledgerkeeper, Const.
Butler, C. H. ... Raw Materials S'keeper, Supply
Cameron, L. ... ... Accounts Clerk, Accounts
Davis, D. E. ... Chemist in charge, Laboratory
Lee, Miss D. ... ... Typiste, Accounts
Peake, G. W. ... Despatch Records Clerk, Prodn.
Price, P. ... ... Stores Ledger Clerk, Accounts
Smerd, R. ... ... Stores Ledger Clerk, Const.
Snowdon, Mrs. J. E. ... Calculator Operator, Accounts
Walker, L. ... ... Machine F'man, Production
Watkins, K. ... Prodn. Records Clerk, Accounts
Webster, R. G. ... Raw Materials Clerk, Accounts

RESIGNATIONS

Clarke, Sister V. ... Industrial Nurse, Personnel
Clough, Mrs. B. ... ... Typiste, Accounts
Gruener, K. H. ... Stores Ledger Clerk, Accounts
Harrison, W. C. ... Clerk of Works, Const.—Died 14/4/51
Nankervis, Miss S. ... Calculator Op., Accounts
Pick, T. ... ... Clerk, Const.
Rose, Miss P. M. ... ... Typiste, Const.
Rourke, R. A. ... Brooklyn Stores Ledger Clerk, Const.

MARYVALE MILL:

APPOINTMENTS

Adams, R. W. ... ... Buildings Clerk, Const.
Algie, W. ... ... Foreman Fitter, Const.
Bradley, R. ... ... Clerk, Finance
Caldwell, Miss E. ... ... Jnr. Typiste, Finance
Carver, C. ... ... Clerk of Works, Const.
Cowell, A. G. ... ... Master Electrician, Eng.
Crozier, Mrs. J. E. ... ... Typiste, Finance
Driver, J. ... ... Jnr. Draughtsman, Const.
Franklin, R. W. ... Forestry Equipment Mtce. Foreman
Gibson, Miss E. ... ... Typiste, Const.
Gladman, A. ... ... Despatch Clerk, Fin.
Gunn, Miss M. ... Bookkeeping M/C. and Calculator Op., Finance
Hoffmann, Miss N. ... ... Typiste, Finance
Larter, E. S. ... ... Asst. Mech. Eng., Const.
MacKenzie, D. H. ... Technical Asst., Const.
McQueen, J. ... ... Elec. Workshop F'man, Eng.
Pettit, L. L. ... ... Librarian, Tech.
Ridley, Miss J. ... Drawing Office Clerk, Eng.
Russell, G. W. ... ... Clerk of Works, Const.
Whitfield, Miss M. ... ... Clerk, Central Records

RESIGNATIONS

Bradley, R. ... ... Clerk, Finance
Dillon, Miss C. ... ... Typiste, Finance
Healy, Miss P. ... Despatch Typiste, Finance
Henry, J. P. ... Paper Mill Superintendent—Died 18/3/51

Pearce, Miss B. ... ... Calculator Op., Finance
Stringer, Miss K. ... ... Librarian, Tech.
Tindall, Miss M. ... ... Jnr. Clerk, Tech.

BOTANY MILL:

APPOINTMENTS

Cassano, R. J. ... ... Cost Clerk, Mill Acct.
Chilton, Miss F. F. ... ... Typiste, Const.
Collin, R. M. ... ... Design D'man, Const.
Cox, Miss J. M. ... ... Typiste, Engineering
Dynan, T. J. ... ... Clerk, Production
Elder, G. M. ... ... Detail D'man, Const.
Gilbert, W. S. ... ... Chemist, Tech.
Graham, W. E. ... ... Inspecting Eng., Const.
Hamilton, C. J. ... ... Jnr. Clerk, Office Mgr.
Heffernan, B. ... ... Chemist Trainee, Tech.
Irons, Miss F. J. ... ... Jnr. Clerk, Office Mgr.
Irons, Miss N. A. ... Jnr. Comptometer Op., Mill Acct.
McInnes, S. S. ... ... Inspecting Eng., Const.
McKerlie, W. ... ... Clerk, Const.
McKinnon, C. K. ... ... Detail D'man, Const.
Overmyer, D. E. ... ... Chemist, Tech.
Piper, Mrs. S. I. ... ... Typiste, Const.
Scott, W. R. ... Tech. Asst. to Chief Const. Engineer
Smith, Miss G. ... ... Jnr. Clerk, Office Mgr.
Whitehouse, Miss A. ... ... Jnr. Clerk, Mill Acct.
Wilson, Miss M. ... ... Typiste, Const.

Attenborough, H. H. ... Invoice Clerk, Office Mgr.
Barry, W. J. ... ... Clerk, Production
Begbie, Miss H. ... ... Clerk, Central Records
Carter, Miss B. J. ... ... Typiste, Sales
Fairbank, Miss P. J. ... Typiste, Engineering
Freckleton, Miss B. A. ... Comptometrist, Mill Acct.
Haughey, Miss D. J. .. Jnr. Clerk, Central Records
Jenkin, A. V. ... ... Design D'man, Const.
McManus, W. J. ... ... Clerk, Production
Nichols, W. T. ... ... Chemist, Tech.
Roberts, Miss J. ... ... Typiste, Supply
Routley, Mrs. B. ... ... Typiste, Waste Paper
Smith, Miss C. G. ... Jnr. Clerk, Office Mgr.

BROADFORD MILL:

RESIGNATION:

Penfold, J. .. .. Asst. Construction Eng.

RETURNED FROM OVERSEAS LEAVE:

Young, Sister J. ... Industrial Nurse, Fairfield Mill
Pottage, E. J. ... ... Chemist, Research Division

TRANSFERS:

Allan, M. E. ... Board Mill Chemist to Asst. Mill Chemist, Botany.
Anderson, S. D. ... Stores Ledger Clerk to Plant Inventory Clerk, Accounts, Fairfield.
Andrews, J. D. ... Production Superintendent to Operations Manager.
Balstrup, G. W. ... Asst. to Paper Mill Chemist Fairfield, to Tech. Asst. to C.W.C., Production, H.O.
Barton, C. C. ... Chemist in Charge Mill Lab. to Mill Chemist, Fairfield.
Bromhead, I. J. ... Asst. to Const. Accountant to Deputy Const. Accountant, Botany.
Bruce, Miss J. M. ... Typiste, Relieving Staff to Pay, H.O.
Buckingham, F. G. ... Engineering Clerk to Preventative Maintenance Officer, Eng., Maryvale.
Colgrave, A. P. ... Chemical Assistant, Central Lab. to Shift Chemist, Maryvale.
Crane, E. J. ... Acting Production Manager, Botany to Production Superintendent, H.O.
Crossin, K. R. ... Relieving Clerk to Relieving Officer, Mill Acct. Botany.
Dunn, D. L. ... Asst. to Board Mill Chemist to Acting Paper Mill Chemist, Fairfield.
Dunnachie, R. ... Assistant to Production Supt. H.O. to Special Asst. to Production Mgr., Fairfield.
Feddersen, I. C. ... Engineering Assistant, Melbourne, to Botany.
Flint, Miss D. ... Typiste, Production to A.P.M. Forests.
Forde, J. M. ... Buyer's Clerk Supply to Asst. to Vic. W. Paper Supt.
Gardner, W. G. ... Special Asst. to Paper Mill Supt. Maryvale to Asst. to Board Mill Supt. Botany.
Garnsey, D. ... Detail Draughtsman, Botany to H.O. Construction.
Gates, D. W. ... Jnr. Clerk, Woods to Melbourne.
Goulter, L. ... Clerk Supply H.O. to Weighbridge Clerk, A.S.P.
Hamilton, J. ... Jnr. Clerk to Asst. Cashier, Office Mgr., Botany.
Hayes, J. D. ... Jnr. Clerk, Accounts to H.O. Library.
Henderson, F. ... Engineer's Clerk to Garage Foreman, M'vale.
Johnson, M. ... Paper Mill Foreman to Senior Foreman, Paper Mill, M'vale.
Kift, K. ... Cadet Engineer to Engineering Asst., Maryvale.
Lee, R. H. ... Chemist, Raw Materials to Water Chemist, Botany.
Lester, T. J. ... Elec. D'man H.O. to Fairfield Engineering.
Loft, Mrs. V. E. ... Typiste, Melbourne to Share, H.O.
McConchie, V. J. ... Paper Mill Chemist to Mill Investigation Chemist, Fairfield.
McIntyre, B. ... Junior Clerk, Library to Accts., H.O.
McFarlane, T. ... Acting Paper Mill Supt. to Paper Mill Supt., Maryvale.
Maddern, I. M. ... Design Eng. Electrolytic Plant, Development, to Engineer for Electrolytic Plant, Const.
Mallows, N. A. ... Deputy Pulp Mill Supt. to Pulp Mill Supt., Maryvale.
Moriarty, T. H. ... Asst. to Board Mill Chemist to Paper Asst. Programming Officer, Technical, Botany.
Morris, K. ... Clerk, Melbourne to Accounts, H.O.
Orrman, C. ... Foreman Fitter, Fairfield, to Assistant Engineer, Broadford.

(Continued on page 29)

Latest type of tree-planting machine brought from America by the A.P.M. Forests Pty. Ltd. for the planting of the seedlings in its Gippsland Plantations.

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